Standard Dispenser & Flare

MINI-SAMP & Flare

MINI SAMP

Mini Stand-Alone Missile Protection System

Israel's National Center of Excellence for expendable countermeasures, IMI, has developed a new small-size, state-of-the-art decoy flare dispenser system capable of defeating modern IR-seeking MANPADS and Air-to-Air missiles.

With 1/3 the weight and length of standard flares, the MINI-SAMP provides:

- Protection of previously undefended light helicopters (weight constraint)
- An increased number of countermeasures for medium - size helicopters (flares/chaff)
- Reduced system weight at the same number of countermeasures

The MINI-SAMP is available as a complete system installed on aircraft or as an upgrade kit to existing Countermeasures Dispenser Systems (CMDS) already in use with the customer.

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Main Advantages:

- Protection and enhanced survivability against advanced threats
- Extended protected flight time - more flares per mission
- Extended mission flight time:
  - Significant weight reduction
  - Reduced drag
- Total compatibility / retrofitablilty with existing systems
- Modular design

Components:

- MCU - Management Control Unit
- CDU - Control Display Unit
- EADU - Embedded Advanced Dispensing Unit
- Breech Plate
- Magazine
- Safety Switch

Operation:

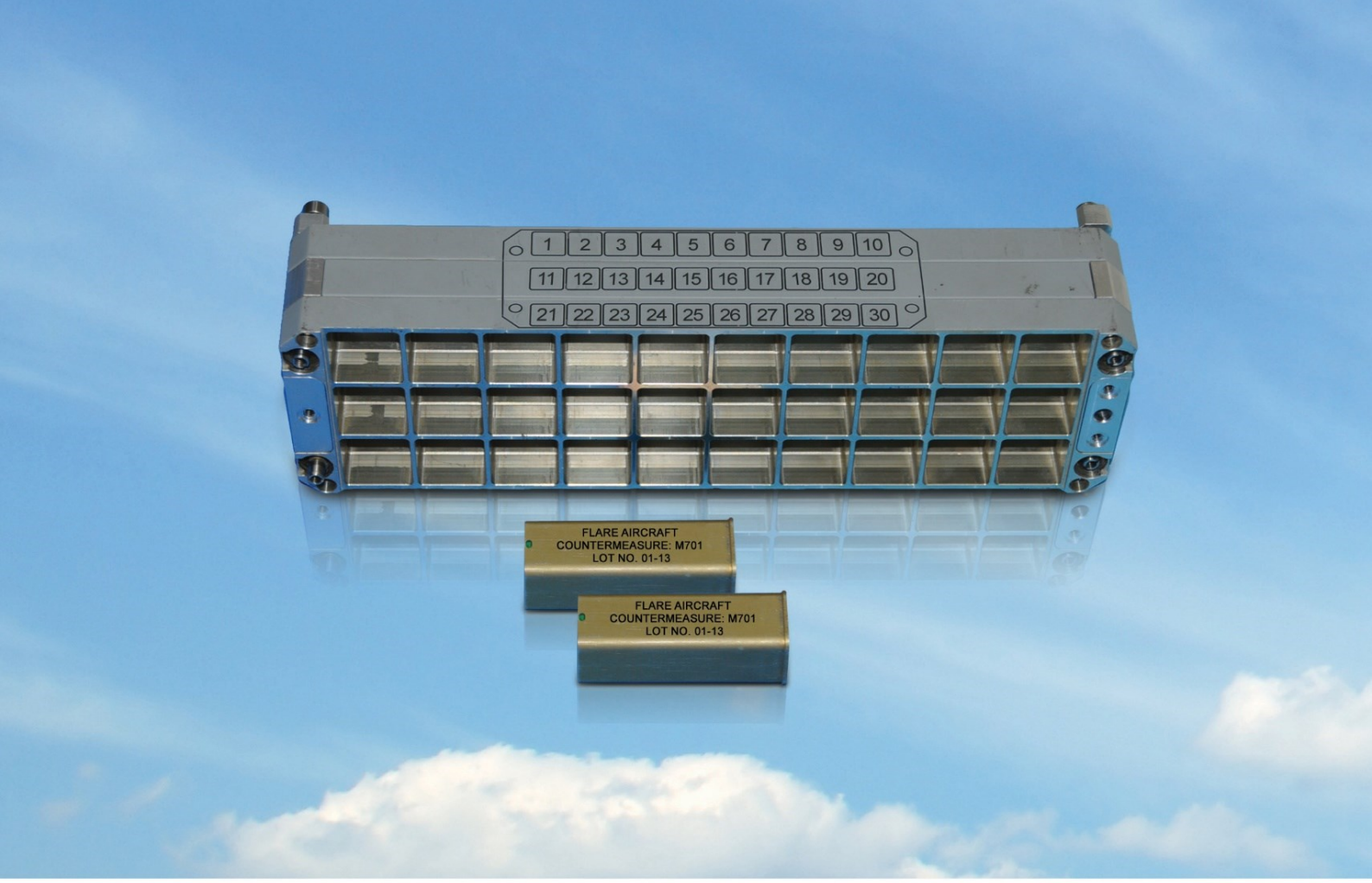
- Automatic, semi-automatic and manual operating modes
- Threat adaptive system - 16 firing programs for manual or automatic (RWS, MWS) selection
- Emergency jettison under any operating mode (including "OFF")
- Short firing intervals and simultaneous firing for high rate dispensing
- Automatic misfire compensation
- Critical quantity alert
- Automatic payload identification inventory and display
- Night Vision Goggles (NVG) compatible cockpit control unit
- Training mode

Available Configurations:

MINI-SAMP 60 - 22 dispensers
MINI-SAMP 120 - 4 dispensers
MINI-SAMP 240 - 8 dispensers
Custom-designed configuration - up to 32 dispensers

Characteristics:

- Full integration with all aircraft systems (discrete lines, RS-422 serial com munication, MIL-STD-1553 multiplex data bus)
- Built-in redundancy due to distributed system architecture
- Firing programs can be uploaded from ground equipment or via the aircraft data bus
- Extensive support package:
  - Test equipment for all maintenance levels
  - Firing programs upload set
  - Comprehensive documentation and training programs
- 3 layer comprehensive Built In Test (BIT):
  - Power on BIT
  - Continuous BIT
  - Initiated BIT
- In-flight activity recording
- In-flight failure data logging


1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30
FLARE AIRCRAFT
COUNTERMEASURE: M701
LOT NO. 01-13
FLARE AIRCRAFT
COUNTERMEASURE: M701
LOT NO. 01-13

Dimensions And Weight:

- 41 x 1 x 2.2" / 25 x 25 x 55 mm
- 0.12 lbs / 0.047 Kg

Cargador

- 9.5 x 4.3 x 3" / 240 x 110 x 55 mm
- 2.54lbs / 1.15 Kg

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